

CLAIMS:

1. (Original) The composition comprising 2-amino-6-[(2-amino-5{guanidine}pentanoyl) amino] hexanoic acid (AAGPAHA).

2. (Original) A method of synthesizing an RGD peptidomimetic, the method comprising

a. combining equal equivalents of Fmoc-Arg(Pbf)-OH and N-[(dimethylamino)-1*H*-1,2,3-triazolo[4,5-*b*]pyridine-1-ylmethylene]-N-methylmethanaminium hexafluorophosphate *N*-oxide (HATU) and dissolving in 0.5 M diisopropylethylamine in dimethylformamide (DMF);

b. preparing Boc-Lys (Fmoc)-resin by soaking in 20% piperidine and DMF;

c. combining the mixture of step a with the Boc-Lys-resin and allowing it to react; and

d. purifying the reaction mixture of c by washing with DMF and 20% piperidine.

3. (Withdrawn) A method of encouraging cell attachment in cell culture, the method comprising

a. providing a cell culture substrate; and

b. adding the compound of claim 1 to the cell culture substrate.

4. (Original) An implant resisting cellular interaction after implantation, the implant comprising

a. the implant; and

b. a coating on the implant comprising the composition of claim 1.

5. (Original) A biomaterial suitable for implantation, the biomaterial capable of resisting cellular interaction after implantation, the biomaterial comprising

- a. the biomaterial; and
- b. a coating on the biomaterial comprising the composition of claim 1.

6. (Original) A pharmaceutical composition comprising

- a. AAGPAHA; and
- b. a pharmaceutical excipient.

7. (Withdrawn) A method of treating cancer in an individual suffering therefrom, the method comprising

- a. providing the pharmaceutical composition of claim 6; and
- b. administering the pharmaceutical composition to the individual.

8. (Withdrawn) A method of treating thrombosis in an individual suffering therefrom, the method comprising

- a. providing the pharmaceutical composition of claim 6; and
- b. administering the pharmaceutical composition to the individual.

9. (Withdrawn) A method of treating osteoporosis in an individual suffering therefrom, the method comprising

a. providing the pharmaceutical composition of claim 6;
and

b. administering the pharmaceutical composition to the individual.

10. (Withdrawn) A method of treating retinopathy in an individual suffering therefrom, the method comprising

a. providing the pharmaceutical composition of claim 6;
and

b. administering the pharmaceutical composition to the individual.

11. (Withdrawn) A method of treating renal insufficiency in an individual suffering therefrom, the method comprising

a. providing the pharmaceutical composition of claim 6;
and

b. administering the pharmaceutical composition to the individual.

12. (Withdrawn) A method of treating wounds in an individual having at least one wound, the method comprising

a. providing the pharmaceutical composition of claim 6;
and

b. administering the pharmaceutical composition to the individual.

b. a pharmaceutical excipient.